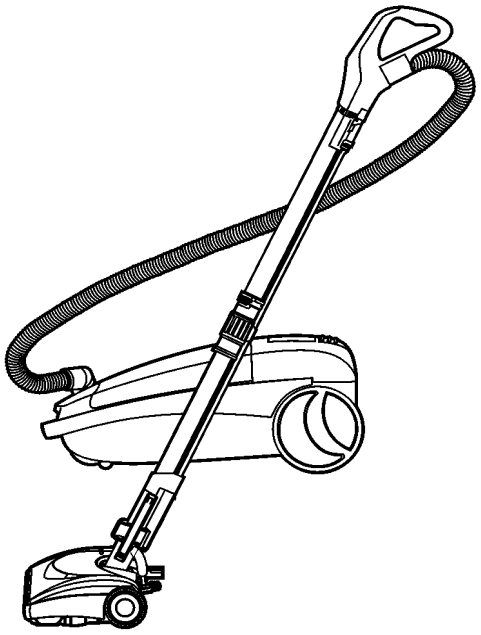
Order Number MAC00503001C1

Service Manual

Vacuum Cleaner

MC-V9658-00



Model	MC-V9658-00
Power Source	AC 120V (60 Hz)
Power Consumption	12.0 Amps
Cord Length	28 Ft.
Headlight	Yes
Tools-On-Board	Yes
Weight	30.0 lbs.

Specifications are subject to change without notice for further improvement.

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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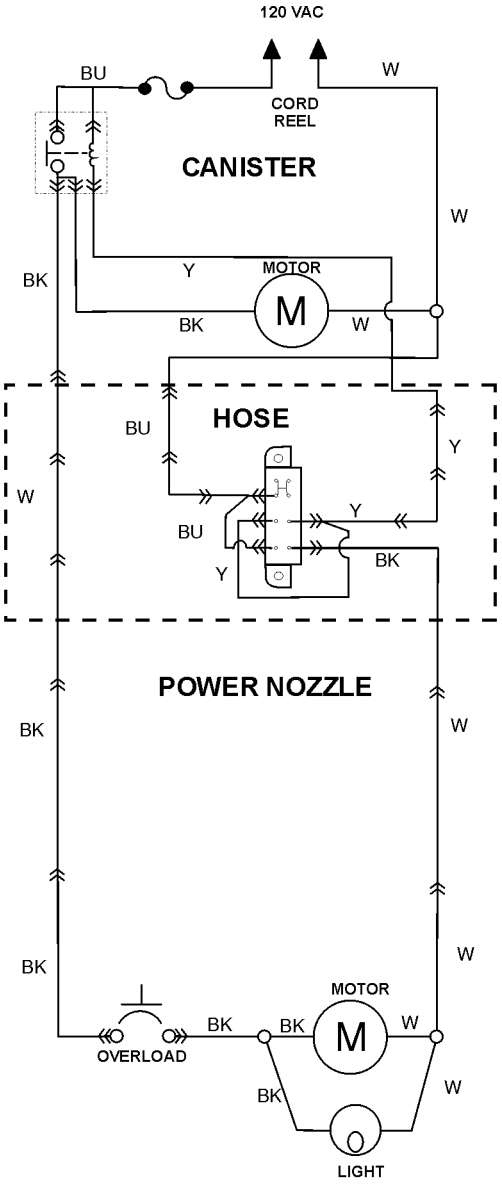
1 WIRING DIAGRAM

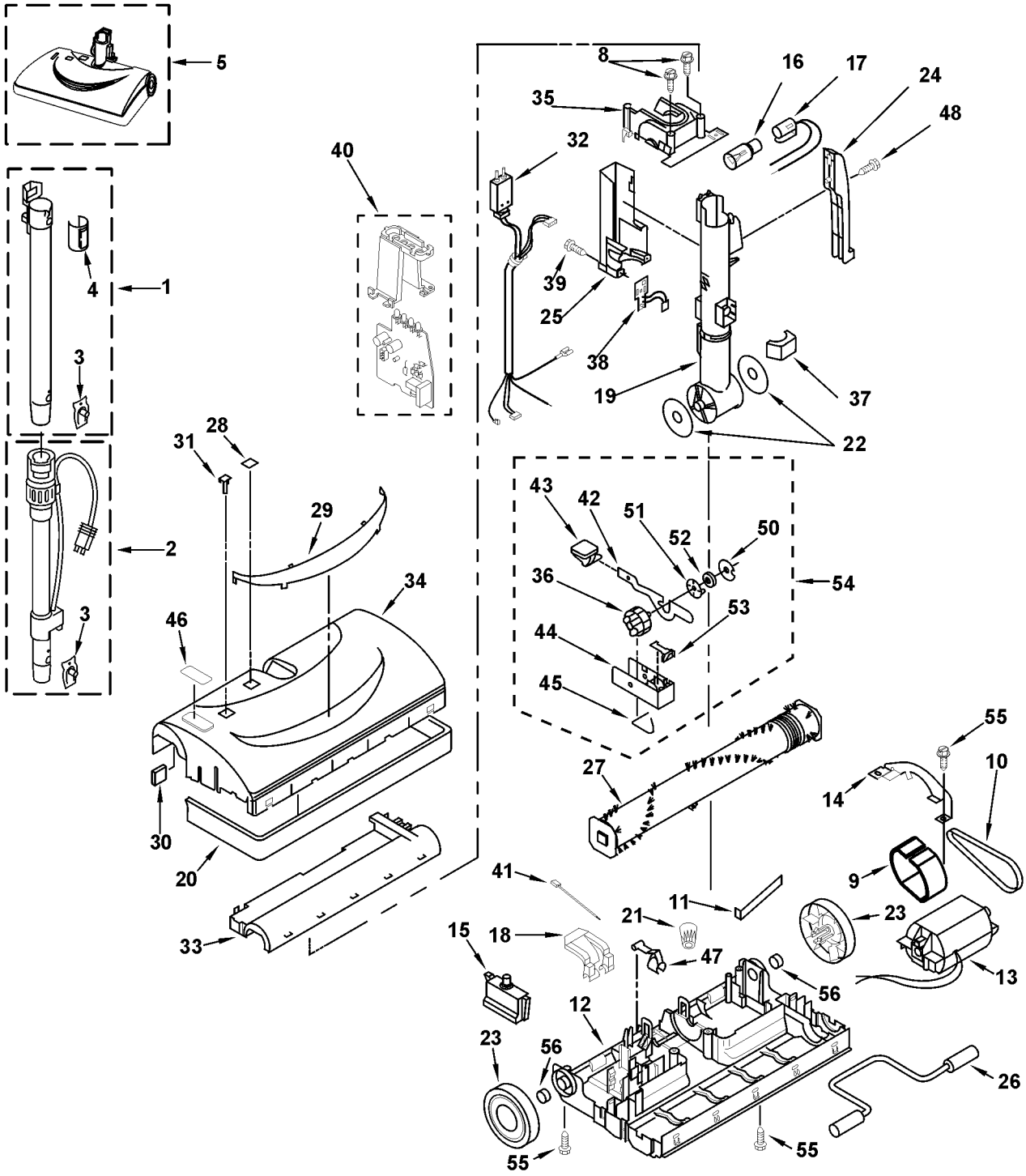
1.1. Wiring Schematic



2 EXPLODED VIEW AND PARTS LIST

2.1. Power Nozzle

2.1.1. Exploded View

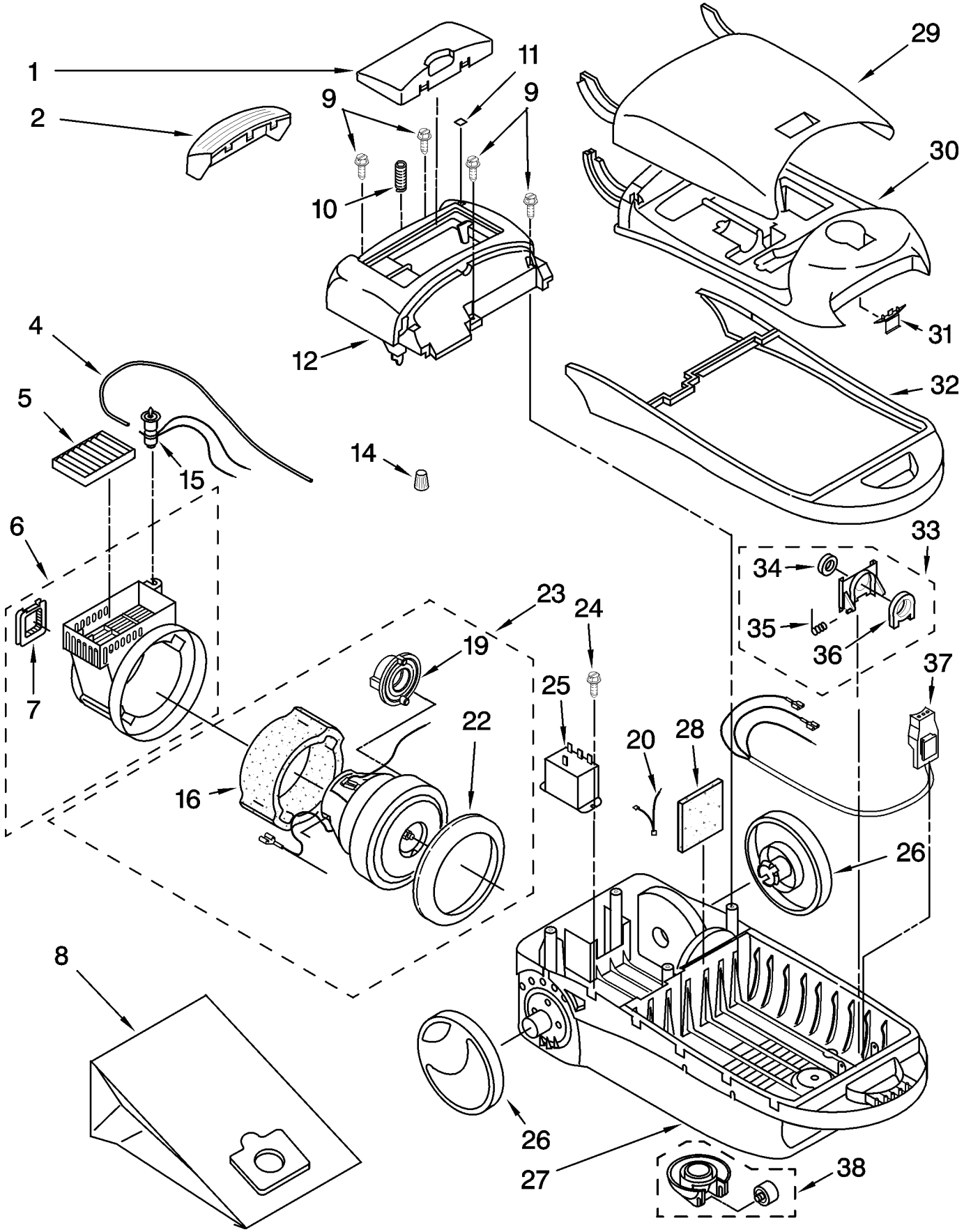


2.1.2. Parts List (Power Nozzle)

Ref. No.	Part No.	Part Name & Description	Quantity	Remarks
1	AC97PBPJZV06	EXTENTION WAND UNIT(UPPER)	1	
2	AC99PCRXZV06	EXT. WAND UNIT (LOWER)	1	
3	AMC725-419	SPRING-WAND LOCK ASSY. CO.	1	SHIPPED 10 PER PACKAGE
4	AC70QBPJZV06	QUICK RELEASE	1	
5	AC50XCRXZB0Z	POWER NOZZLE ASSEMBLY	1	
8	AMC681-550	SCREW ASSY. COMPLETE	2	SHIPPED 10 PER PACKAGE
9	AC747156	MOTOR GASKET	1	
10	AC28SAXAZ000	BELT MICRO GROOVE	1	
11	AMC742-002	MOTOR ADJUST SPRING ASSY. CO.	1	
12	AC03RAKTZU01	FLOOR NOZZLE	1	
13	AC90FCBJZ000	MOTOR	1	
14	AMC705-093	MOTOR BRIDGE ASSY. COMPLETE	1	
15	AC97KAXEZV04	SERVICE OVERLOAD PROTECTOR	1	
16	AC28GADFZ00	BULB, LIGHT	1	
17	AC93HABFZ00	BULB SOCKET ASSY COMPLETE	1	
18	AC47AGJZV06	HANDLE RELEASE	1	
19	AC92PBEYZV06	NOZZLE SWIVEL ASSEMBLY	1	
20	AC10AAKTZV06	FURNITURE GUARD	1	
21	AMC-1CTCE23	WIRE CONNECTOR	2	SHIPPED 10 PER PACKAGE
22	AMC742-019	SWIVEL SEAL ASSY. COMPLETE	2	
23	AC01CAKSZV06	WHEEL	2	INCLUDES ITEM 56 BUSHING
24	AC70QBEXZV06	QUICK RELEASE PEDAL	1	
25	AC69QAENZV06	REAR COVER	1	
26	AMC744-029	AXLE-FRONT ASSY. COMPLETE	1	
27	AC84RBZMZ000	AGITATOR	1	
28	AC21HGJZ00	LENS HEIGHT ADJ. ASSY COMPLETE	1	
29	AC21HAKTZ000	WINDOW COVER	1	
30	AC37KAKSZ000	FILTER-INTAKE/EXHAUST	2	
31	AC13DAUJZVU6	BUTTON EXT H.S.	1	
32	AC67VAXEZV06	LEAD WIRE UNIT	1	
33	AC01QAKTZW03	AGITATOR COVER	1	
34	AC02RCRXZBUZ	NOZZLE DECO	1	
35	AC62VAKTZV06	Swivel Cap Thermal Unit	1	
36	AMC747-291	CAM INDICATOR ASSY COMPELTE	1	
37	AC68QGJZV06	SERVICE FRONT COVER	1	
38	AC85VGJZ00	PCB”B”UNIT0 ASSY COMP.	1	
39	AMC-XTN4+24BFY	SCREW ASSEMBLY COMPLETE	1	SHIPPED 10 PER PACKAGE
40	AC87GGJZU01	PCB ASSEMBLY	1	
41	AC85GAXEZ000	LEAD WIRE	1	
42	AMC747-287	INDICATOR LEVER ASSY. COMPLETE	1	
43	AC48AMGZV06	PAD FOOT PEDAL	1	
44	AMC742-015	INDICATOR BLOCK ASSY. COMPLETE	1	
45	AMC725-775	SPRING ASSIST ASSY. COMPLETE	1	
46	AC33MGJZ00	WINDOW DUST SENSOR ASSY COMP	1	
47	AMC742-013	LIFTER ASSY. COMPLETE	1	
48	AC68AZAZ00	LOWER PLATE SCREW ASSY. COMP.	1	SHIPPED 10 PER PACKAGE
50	AMC722-909	WASHER THRUST ASSY. COMPLETE	1	SHIPPED 10 PER PACKAGE
51	AMC722-955	CATCH-INDEXING ASSY. COMP.	1	
52	AMC725-635	WASHER ASSY. COMPLETE	1	SHIPPED 10 PER PACKAGE
53	AMC742-016	RATCHET-CATCH ASSY. COMPLET	1	
54	AC83MAKSZV06	INDICATOR BLOCK ASSEMBLY	1	
55	AMC681-297	SCREW ASSY. COMPLETE	**4**	SHIPPED 10 PER PACKAGE
56	AC64CAKTZ000	BUSHING	1	

2.2. Canister

2.2.1. Exploded View

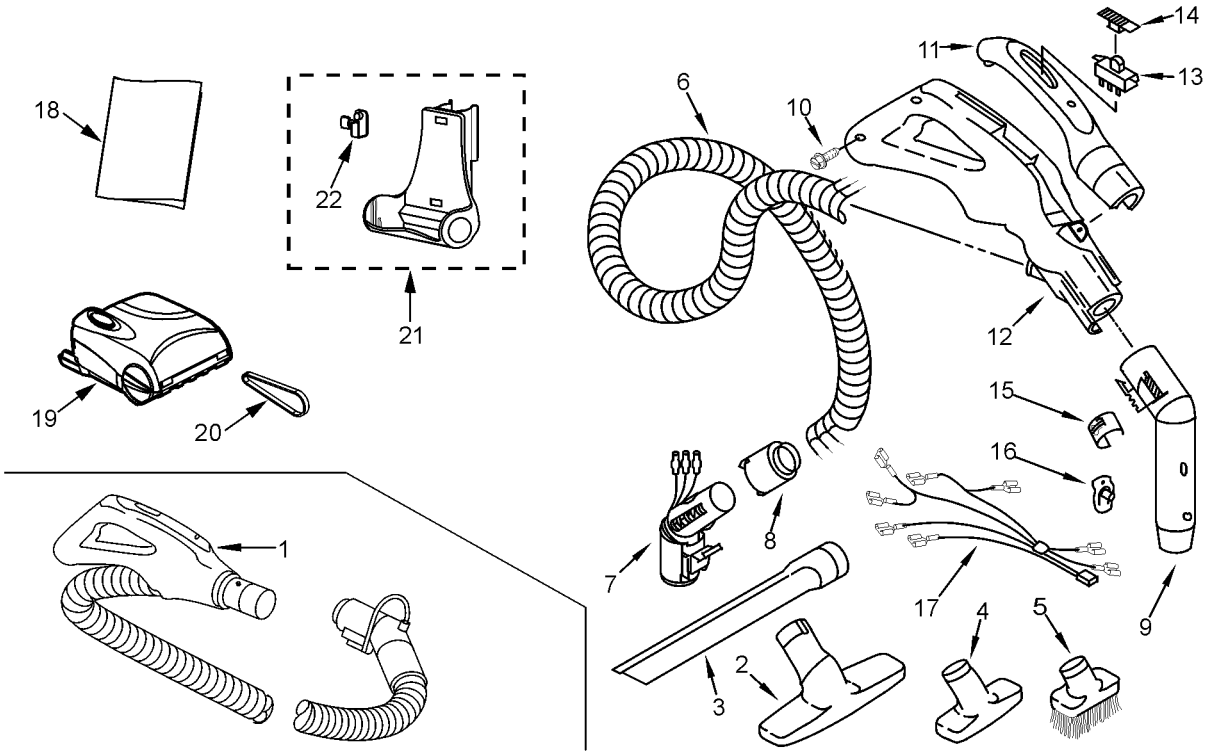


2.2.2. Parts List

Ref. No.	Part No.	Part Name & Description	Quantity	Remarks
1	AC41KBAKZBUZ	FILTER COVER	1	
2	AC46NAKTZV06	CORD REWIND BUTTON	1	
4	AC62PAKTZ000	VAC SWITCH TUBE	1	
5	AC38KBRMZ000	HEPA FILTER ASSY COMP	1	
6	AC93FAUXZ000	MOTOR ENCLOSURE	1	
7	AC03FAKTZ000	MOTOR RUBBER SUPPORT	1	
8	AC16KGFZ00	DUST BAG ASSY COMP.	1	
9	AMC414-8999	SCREW THRD CUTTING	4	SHIPPED 10 PER PACKAGE
10	AMC744-258	SPRING CORD BUTTON	1	
11	AC08MCRXZ000	INDICATOR WINDOW	1	
12	AC95HAUYZBUZ	CANOPY COVER	1	INCLUDES ITEM 11
14	AC4154460	WIRE CONNECTOR	3	SHIPPED 10 PER PACKAGE
15	AC96MAKTZ000	PERFORMANCE INDICATOR LIGHT	1	
16	AC99GAKTZ000	NOISE SUPPRESSOR	1	
19	AC03FAXAZ000	MOTOR REAR SUPPORT	1	
20	AC81GAWAZ000	LEAD WIRE ASSEMBLY	1	
22	AC02FBUYZ000	MOTOR FRONT SUPPORT	1	
23	AC92FAUXZ000	MOTOR ASSEMBLY	1	
24	AMC-XTN4+14BFY	SCREW ASSY. COMPLETE	1	SHIPPED 10 PER PACKAGE
25	AC30EAWPZ000	RELAY	1	
26	AC99CAKTZV07	WHEEL	1	
27	AC03AAUYZV07	LOWER BODY BASE	1	
28	AC37KAKTZ000	SECONDARY FILTER	1	
29	AC74PCRXZBUZ	TOOL LID COVER	1	
30	AC60KCRXZBUZ	DUST COVER	1	
31	AC01DAKTZV07	BUCKLE	1	
32	AC31AAXAZV06	FURNITURE GUARD	1	
33	AC11KAKTZR01	BAG SUPPORTER ASSEMBLY	1	
34	AC64HAKTZ000	INLET (BAG) PACKING	1	
35	AMC706-024	BAG MOUNT ASSY COMP	1	
36	AC03LAKTZ000	BAG MOUNT GASKET	1	
37	AC90EAKTZV06	RECEPTACLE	1	
38	AC93CAKTZV07	CASTOR ROLLER UNIT	1	

2.3. Hose & Attachments

2.3.1. Exploded View

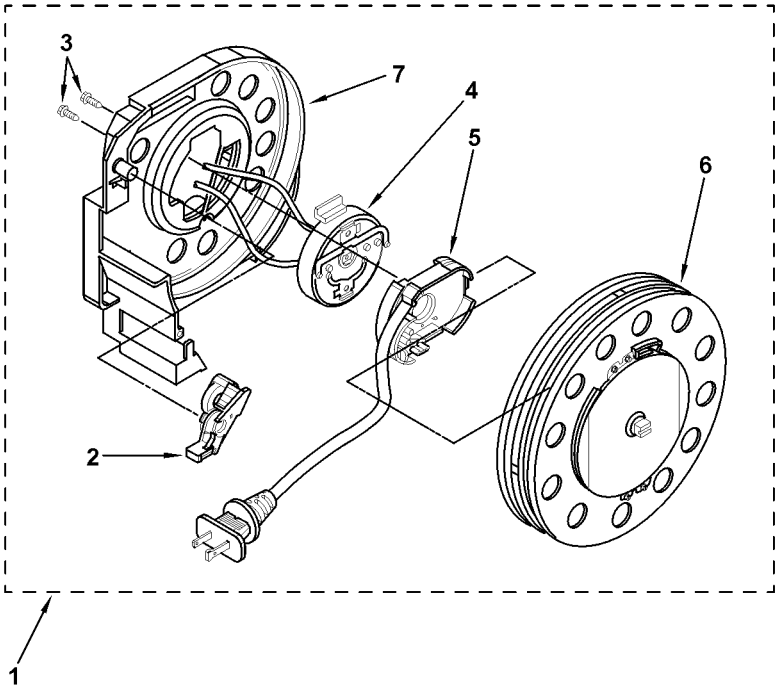


2.3.2. Parts List

Ref. No.	Part No.	Part Name & Description	Quantity	Remarks
1	AC94PAUSZB0Z	HOSE ASSEMBLY	1	
2	AC96RAKTZV06	FLOOR BRUSH	1	
3	AC60RAKZZV06	CREVICE TOOL	1	
4	AC86RAKZZV06	FABRIC BRUSH	1	
5	AC88RAJRZV06	DUSTING BRUSH	1	
6	AC05PAEPZV06	HOSE ASSY	1	
7	AC92PCAZZV06	SWIVEL ASSY	1	
8	AC22PAFZZV06	HOSE ADAPTER	1	
9	AC98PSTZV06	CURVED PIPE INIT	1	
10	AXTN4+12BFY	SCREW(HANDLE CAP) ASSY. COMPL	4	SHIPPED 10 PER PACKAGE
11	AC68GASMZB0Z	SWITCH CASE	1	
12	AC93BASMZV06	HANDLE ASSEMBLY	1	
13	AC09ESTZ000	SLIDE SWITCH	1	
14	AC99EAUJZVU6	SLIDE KNOB DECO	1	
15	AC54PAPAZV06	CONTROL SUCTION	1	
16	AMC415-2093	SPRING WAND LOCK ASSY COMP.	1	
17	AC37GSTZV06	WIRE HARNESS	1	
18	AC01ZCRXZ000	OPERATING INSTRUCTIONS	1	
19	AC85PCSUZV0N	COMPACT POWER NOZZLE	1	
20	AC28SBPKZ000	BELT, COMPACT POWER NOZZLE	1	
21	AC66PBPKZV06	TOOL CADDY ASSEMBLY	1	
22	AC82DBPJZV06	LOCKING CLIP	1	

2.4. Cord Reel

2.4.1. Exploded View



2.4.2. Parts List

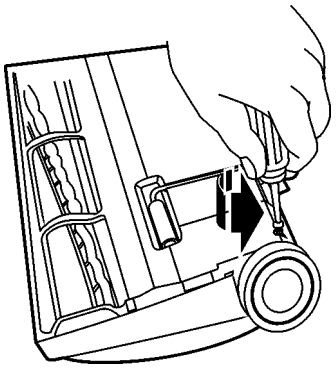
Ref. No.	Part No.	Part Name & Description	Quantity	Remarks
1	AC99NBEEZV07	CORD REEL	1	
2	AC94NAKTZV06	BRAKE LEVER	1	
3	AXTN4+16BFY	SCREW	2	SHIPPED 10 PER PACKAGE
4	AC19NAVAZ000	CONTACT BASE	1	
5	AC98NAKTZ000	CONTACT DISC ASSY COMPLETE	1	
6	AC01NAKTZ000	CORD REEL HUB ASSY COMPLETE	1	
7	AC04ABEEZV07	CORD REEL BRACKET	1	

3 SERVICE PROCEDURES - POWER NOZZLE

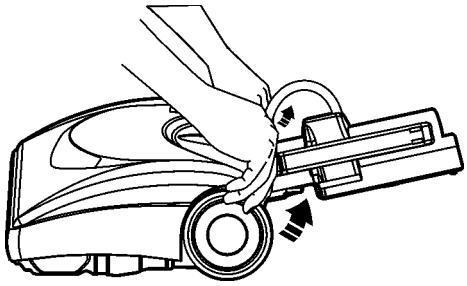
3.1. BELT

3.1.1. Belt Removal

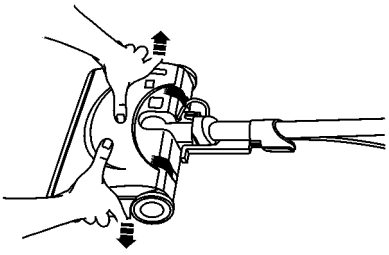
1. Turn Power Nozzle upside down.
2. Unscrew the two (2) Power Nozzle cover screws.



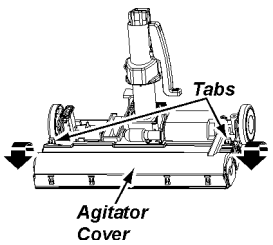
3. Turn Power Nozzle right side up. Press handle release pedal and lower the swivel. Lift rear latches up.



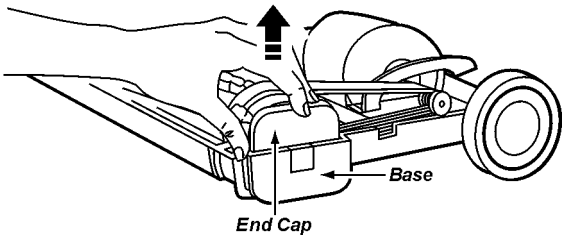
4. To remove cover, grasp the sides and pull out.



5. Depress tabs on rear of agitator cover and rotate forward to release from the Power Nozzle base.

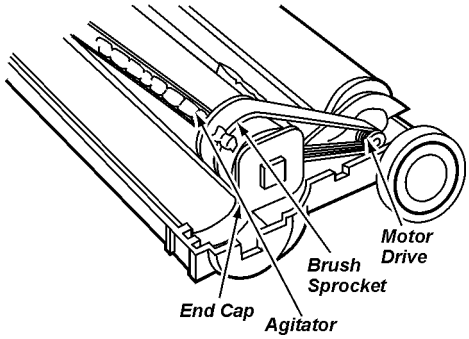


6. Lift agitator assembly out and remove worn belt.

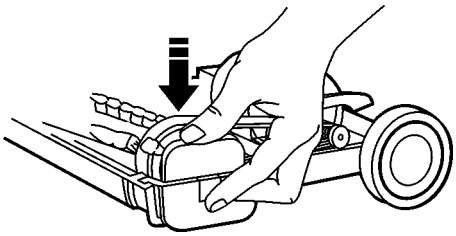


3.1.2. Belt Replacement

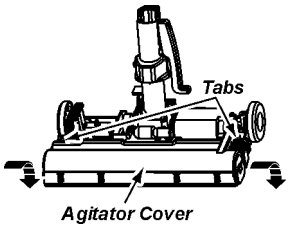
1. Install new belt over motor drive, then over brush sprocket.



2. Place agitator assembly back into Power Nozzle.

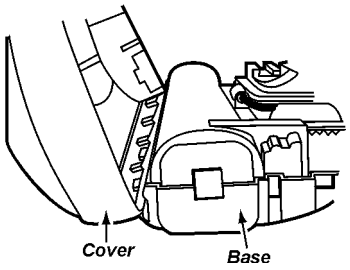


3. Reinstall agitator cover by lining up the front tabs and slots and rotating downward until the latches snap into place.

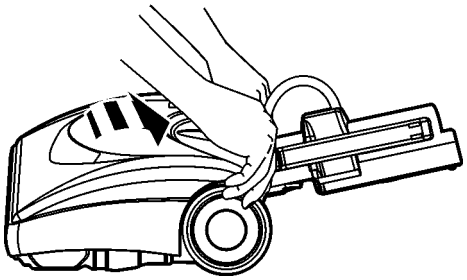


4. Line up front of cover and base. Rest cover on front edge

of base as shown.



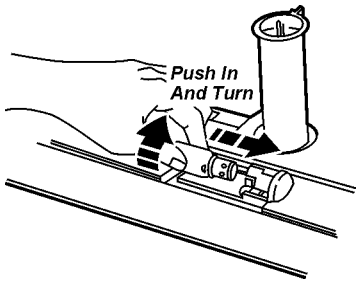
5. Rotate cover back. Press cover firmly until side and rear tabs snap into place. Turn Power Nozzle upside down and replace two (2) cover screws.



3.2. BULB

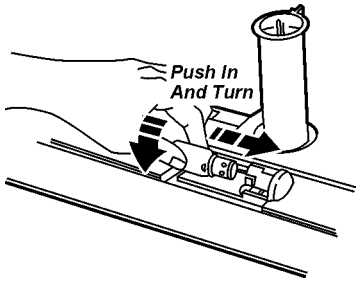
3.2.1. Bulb Removal

1. Remove Power Nozzle cover (see Belt Removal).
2. Push in and turn bulb counterclockwise, then pull out to remove.



3.2.2. Bulb Replacement

1. Push in and turn bulb clockwise, to replace. Bulb must not be higher than 15 Watts(130 Volts).



2. Reinstall Power Nozzle cover (see Belt Replacement).

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3.3. POWER NOZZLE MOTOR

3.3.1. Specifications

1. 120V., 60Hz.
2. Amps 2.0/2.7 (max.) at 18,000/14,550 R.P.M.
3. Watts 225/298 (max.) at 18,000/14,550 R.P.M.
4. Torque 55/100 Nm at 18,000/14,550 R.P.M.

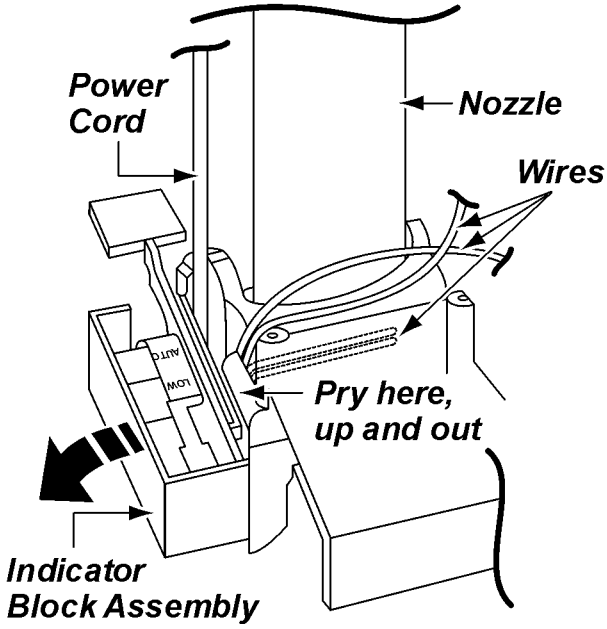
3.3.2. Motor Replacement

1. Remove Power Nozzle cover, nozzle cover and agitator assembly (see BELT REMOVAL.
2. Remove two (2) motor bridge screws. Lift out bridge and motor.

NOTE: Observe routing of motor wires and all other wiring before removing motor.

3. Hook a finger under the center of the overload protector and lift to free it from the retaining tabs. Remove the overload protector wire terminals. Check continuity by depressing the button completely. When the button is released there should be continuity between the two poles when checked. If all components and items in the troubleshooting guide have been checked and the overload protector continues to trip, it should be replaced.

4. Insert a flat screwdriver blade between the indicator block assembly and the plastic retainer for the four (4) wires. Pry up and out to free the indicator block assembly from the retaining tabs.

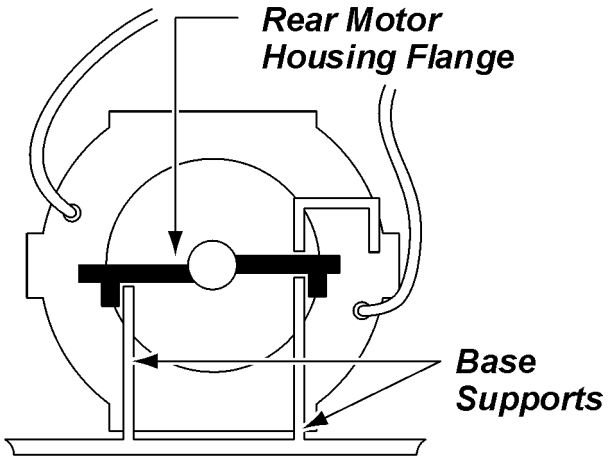


5. Unscrew wire nuts to free motor lead wires.

6. Install new motor. Assure motor is fully seated on all four (4) front and rear base supports. Rear motor housing flange should be in slot of base support.

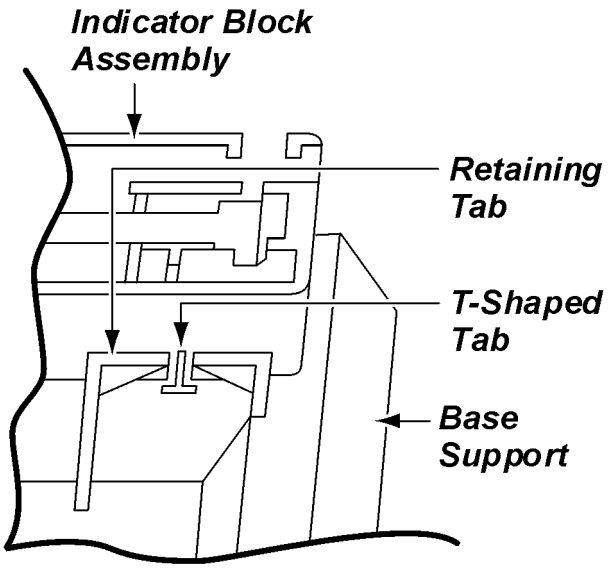
CAUTION: Do not pinch wire.

7. Install motor bridge and secure with two (2) screws.



8. Reroute all wiring per original layout utilizing wire retainers provided, and proper placement of wires to prevent pinching of wires and interference when reinstalling the indicator block assembly. Connect wires and apply wire nuts, (reference WIRING DIAGRAM).

9. Install indicator block assembly. Holding the assembly at a slight angle, insert the edge of the part behind the retaining tabs (use T-shaped tab on assembly to align in slot of retaining tab). With fingers lifting base off the floor (to free front axle) use both thumbs to push the indicator block assembly down until it snaps in place.



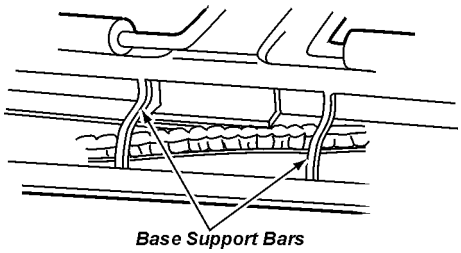
10. Install the overload protector by snapping into position between the two retaining tabs and with one end pushed up against the indicator block assembly.

11. Replace remaining parts (see BELT REMOVAL).

3.4. AGITATOR ASSEMBLY

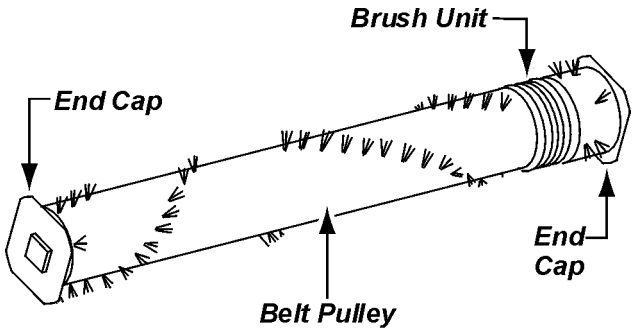
3.4.1. Agitator Checking

1. When brushes are worn to the level of the base support bars, replace the agitator.



3.4.2. Agitator Assembly Replacement

1. Remove Power Nozzle cover, agitator cover, belt and agitator assembly (see BELT REMOVAL).
2. Reassemble belt, agitator assembly, Power Nozzle cover, light bulb and light cover (see BELT REPLACEMENT).

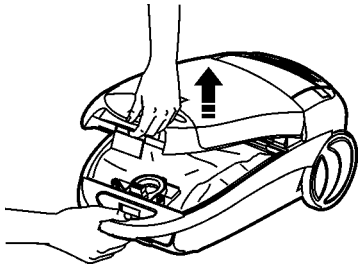


4 SERVICE PROCEDURES - CANISTER

4.1. HOOD

4.1.1. Removal

1. Lift up on the hood release as the hood is raised.



2. With the hood all the way up, force it until the two ends pop out of place.

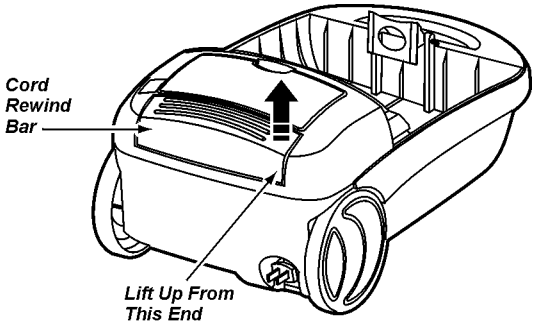
4.1.2. Replacement

1. Place each end of the hood into the slot while holding upright in the position it was removed.
2. Work both ends into the openings and close.

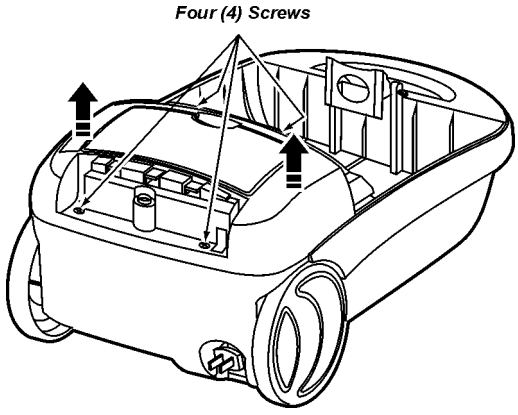
4.2. CANOPY COVER

4.2.1. Removal

1. Remove the cord rewind bar by snapping it off from rear to front.



2. The canopy cover has a screw on each of the four (4) corners sercuring it in place. Use a screwdriver to remove each screw.



3. Lift the canopy cover off of the canister base.
4. Secure the power cord to prevent retracting as you are servicing the motor.

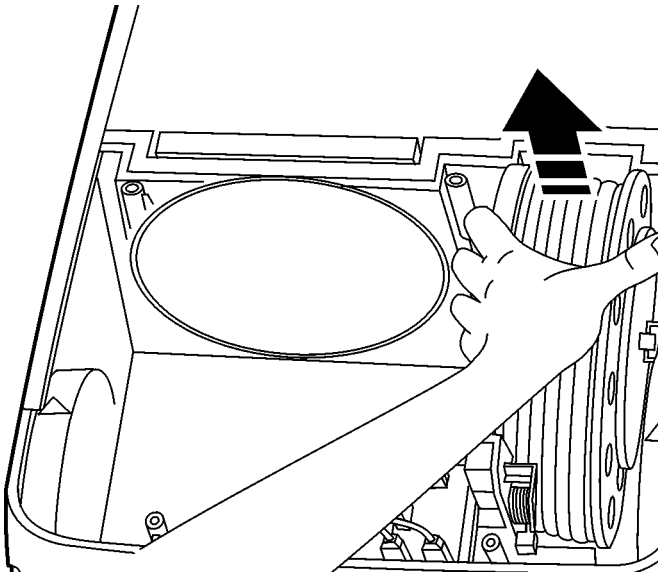
4.2.2. Replacement

1. Set the canopy cover in position and secure the canopy with (4) screw holes.
2. Snap the cord rewind bar into place on the canopy cover.

4.3. CORD REEL

4.3.1. Removal

1. Remove hood (see HOOD Removal).
2. Remove canopy cover (see CANOPY COVER Removal).
3. Disconnect both cord reel wires.
4. Remove the cord cover cap from the base.
5. Lift the cord reel straight up to remove. Do this by prying it out of the retainers.



4.3.2. Replacement

1. Connect both wire cord reel wires to the new cord reel assembly.
2. Route the plug through the hole in the canister base and snap the cord cover cap in place.
3. Position the slots in the cord reel brackets into place over the retainers in the base.
4. Route the cord reel wire into the provided slot to prevent pinching
5. Replace canopy cover and brake pedal (see Canopy Cover Replacement.
6. Replace hood (see Hood Replacement).

4.4. CANISTER MOTOR

4.4.1. Removal

1. Remove hood (see HOOD Removal).
2. Remove canopy cover (see CANOPY COVER Removal).
3. Remove the motor enclosure from the motor.
4. Remove white wire and black wire terminal from the motor.

4.4.2. Replacement

1. Attach white wire and black wire teminals to the new motor.
2. Replace the enclosure on the motor.

3. Place new motor in canister base
4. Replace canopy cover and brake pedal (see Canopy Cover Replacement.
5. Replace hood (see Hood Replacement).